INSTALLATION



150 Series Camclosure® Integrated Camera System



In-Ceiling Mount

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Important Safety Instructions

- Read these instructions
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4 Follow all instructions
- 5. Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 6. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 7. Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 9. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 10. Installation should be done only by qualified personnel and conform to all local codes.
- 11. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
- Use only installation methods and materials capable of supporting four times the maximum specified load.
- 13. CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other that contained in the operating instructions unless you are qualified to do so.
- 14. Only use replacement parts recommended by Pelco.

The product and/or manual may bear the following marks:



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

CAUTION:

RISK OF ELECTRIC SHOCK.
DO NOT OPEN

Regulatory Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radio and Television Interference

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may also find helpful the following booklet, prepared by the FCC: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Description

The 150 Series Camclosure® integrated camera system is an in-ceiling dome incorporating a camera and lens package into a small, discreet, high-security enclosure designed for areas subject to heavy vandalism. The system is perfect for a variety of indoor and outdoor applications and its versatile design allows for multiple mounting options.

The ICS150 Series Camclosure can be installed directly to a wall, ceiling, 4S electrical box (using the optional ICS150 adapter plate), or a ceiling tile.

Installation **INSTALL BACK BOX**

MOUNTING DIRECTLY TO A WALL OR CEILING

- 1. Cut a hole 3.5 inches (9 cm) in diameter in the ceiling or wall using the adapter plate as a template.
- 2. Connect the video cable.
- 3. Connect the power wires.
 - For 12 VDC, connect the 24 VAC/12 VDC (red) and GND (black) wires to input power. The blue wire is not used.
 - MOUNTING DIRECTLY TO WALL OR CELLING For 24 VAC, connect the 24 VAC/12 VDC (red) and 24 VAC (blue) wires to input power.

WALL OR

BACK BOX

CELLING

The black wire is not used.

MOUNTING

HARDWARE (NOT SUPPLIED)

4. Attach the back box to the wall or ceiling.

MOUNTING TO 4S DEEP ELECTRICAL BOX

- 1. Attach the adapter plate to the 4S box with the two 8-32 x 0.750-inch screws. (supplied)
- Connect the video cable.
- 3. Connect the power wires.
 - For 12 VDC, connect the 24 VAC/ 12 VDC (red) and GND (black) wires to input power. The blue wire is not used.
- 4S DEEP ELECTRICAL BOX WALL OR CEILING 8.32 X .750 SCREW (SUPPLIED) ADAPTER PLATE BACK BOX 8.32 X .375 SCREW (SUPPLIED MOUNTING TO 4S DEEP ELECTRICAL BOX
- For 24 VAC, connect the 24 VAC/12 VDC (red) and 24 VAC (blue) wires to input power. The black wire is not used.
- 4. Attach the back box to the adapter plate with the four 8-32 x 0.375-inch screws (supplied).

MOUNTING TO CEILING TILE

- 1. Remove the ceiling tile.
- 2. Using the adapter plate as a template, cut a hole 3.5 inches (9 cm) in diameter in the ceiling tile for the back box. Punch four screw holes in the ceiling tile.
- 3. Attach the back box to the ceiling tile and adapter plate with the four 8-32 x 1.25-inch screws.
- 8-32 X 1.25
 MOUNTING HARDWARE (SUPPLIED)

 MOUNTING TO CEILING TILE

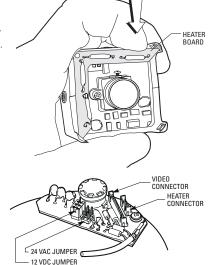
ADAPTER PLATE

- 4. Replace the ceiling tile.
- 5. Remove an adjacent ceiling tile and connect the video cable.
- 6. Connect the power wires.
 - For 12 VDC, connect the 24 VAC/12 VDC (red) and GND (black) wires to input power. The blue wire is not used.
 - For 24 VAC, connect the 24 VAC/12 VDC (red) and 24 VAC (blue) wires to input power. The black wire is not used.

INSTALL CAMERA

WARNING: Heater elements could be hot! When camera power is on, use caution when adjusting the camera. This applies to all models.

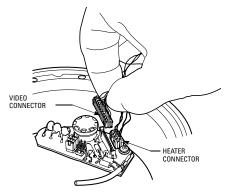
 Some indoor installations do not require a heater. If the installation does not require a heater, remove the heater board from the camera assembly. To remove the heater apply pressure and press on the corner of the board.



 12 VDC Operation Only: The camera is set for 24 VAC operation at the factory. For 12 VDC operation, remove the jumper from the 24 VAC position and install it on the 12 VDC position.

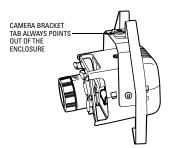
If the heater is installed, plug the heater connector from the camera into the mating connector inside the base. Plug the video connector from the camera into the mating connector inside the base.

Turn on power to the camera and monitor.

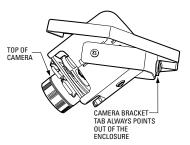


4. Always make sure the tab on the camera bracket is pointing out of the enclosure (away from the ceiling or wall). Gently squeeze the bracket, place it against the shoulder inside the back box, and then gently release.

Proper camera orientation:



Ceiling Mounting: The camera bracket tab points out of the enclosure, and the top of the camera is pointed in the opposite direction.

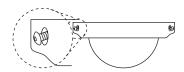


Wall Mounting: The camera bracket tab points out of the enclosure, and the top of the camera points up towards the tab.

INSTALL DOME AND TRIM RING

Place the trim ring and dome over the back box. If the dome has a liner, position the viewing window over the lens of the camera. Tighten the tamper-resistant screws with the supplied 1/8-inch hollow screwdriver bit.

NOTE: The screws are installed at an angle.



Adjustments

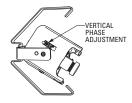
The camera is set up at the factory and normally requires no adjustments. Sometimes, however, adjustments may be necessary.

- 1. Remove the dome and trim ring using the supplied 1/8-inch hollow screwdriver bit.
- 2. Adjust the vertical phase, focus, or switch settings (refer to the following procedures).
- 3. Replace the dome and trim ring.

VERTICAL PHASE (24 VAC OPERATION ONLY)

Adjustment is required if there is vertical roll when switching between two cameras.

- Reverse the 24 VAC connections on one camera. If both cameras are connected to the same transformer, this should solve the problem.
- If reversing the connections does not solve the problem, or if cameras are connected to different transformers, turn the adjustment screw on one camera (while switching as rapidly as possible between the two camera views) until the switching is clean and there is no vertical roll. If more than two cameras are out of synchronization with each other, choose one camera and synchronize all others to it.



SWITCH SETTINGS FOR FIXED FOCAL LENGTH LENS WITHOUT AUTO IRIS

Refer to the switch drawing. The switch is located next to the lens. Automatic backlight compensation (factory setting) is used under varying lighting conditions (such as outdoors) or fixed lighting conditions, where there are no bright spots that darken other picture details. Manual backlight compensation is used in fixed lighting conditions to optimize the picture detail when there are bright spots.

•	ALC/ELC switch:	Always ELC	F.	FACTORY SETTINGS		
•	Y/DC switch:	Not used		ALC Y BLC ABL		
•	Auto backlight compensation:	BLC switch OFF ABL switch ON	ON OFF	NOTUSED		
•	Manual backlight compensation:	BLC switch ON ABL switch OFF		DC NO OFF		
				= SWITCH POSITION		

Specifications

GENERAL

Operating Temperature -50° to 122°F (-46° to 50°C)

De-ices to 25°F (-4°C)

Pan/Tilt

Adjustment Manual; 360° pan, 180° tilt

Construction Aluminum with steel camera mounting bracket and polycarbonate dome Finish White polyester powder coat trim ring with charcoal gray back box

Dimensions Refer to dimension drawing below

Environment Low temperature, indoor/outdoor, suitable for use in environmental air

handling spaces

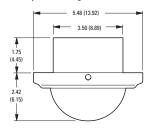
Weight 1.70 lb (0.77 kg)

ELECTRICAL

Input Voltage 12 VDC or 24 VAC, ±10%

Power Consumption 13 W or less Video Connector BNC

(Design and product specifications subject to change without notice.)



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.



The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- · Five years on fiber optic products and TW3000 Series unshielded twisted pair (UTP) transmission products.
- Three years on Spectra® IV products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on DX Series digital video recorders, DVR5100 Series digital video recorders, DigitalSENTRY® Series hardware products, DVX Series digital video recorders, NVR300 Series network video recorders, and Endura® Series distributed network-based video products.
- Three years on Camclosure® and Pelco-branded fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Three years on PMCL200/300/400 Series LCD monitors.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra III™, Spectra Mini, Esprit®, ExSite®, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit and WW5700 Series window wiper (excluding wiper blades).
- Two years (except lamp and color wheel) on Digital Light Processing (DLP®) displays. The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Two years on Intelli-M® eIDC controllers.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners, or preset lenses used in continuous motion applications (preset scan, tour, and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to a Pelco designated location. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental, or consequential damages (including loss of use, loss of profit, and claims of third parties) however caused, whether by the negligence of Pelco or otherwise

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

- Model and serial number
- 2. Date of shipment, P.O. number, sales order number, or Pelco invoice number
- 3. Details of the defect or problem

If there is a dispute regarding the warranty of a product that does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

To expedite parts returned for repair or credit, please call Pelco at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair) and designated return location.

All merchandise returned for credit may be subject to a 20 percent restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid.

1-8-08

REVISION F	HISTORY	
Manual #	Date	Comments
C2410M	11/99	Original version.
C2410M	1/00	Revised installation instructions. Added FCC notices.
C2410M-A	1/00	Added varifocal lens. Changed format.
C2410M-B	7/00	Added information on dome liner.
C2410M-C	1/01	Added heater element caution.
C2410M-D	7/01	Camera module redesigned, reference ECO 1-7054/7055/7056.
C2410M-E	7/02	Added instructions for fixed lens with auto iris.
C2410M-F	5/03	Revised Installation instructions – bracket and camera assembled at factory. Added iris level adjustment for fixed lens with auto iris.
C2410M-G	1/04	Added to certifications that all models are suitable for use in environmental air handling spaces.
C2410M-H	10/05	Revised drawings showing vertical phase and iris level adjustments. Revised switch-setting descriptions for varifocal lens. Added WEEE statement.
C2410M-I	1/06	Updated factory switch settings for varifocal lens. Updated wiring information.
C2410M-J	2/08	Revised manual for standard resolution color cameras with fixed focus lenses.



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